RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/579.693
Source:	IFWP,
Date Processed by STIC:	5/31/06
	, ., -

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 05/31/2006
PATENT APPLICATION: US/10/579,693 TIME: 13:29:04

Input Set : E:\seqlistatist

4 <110> APPLICANT: BASF AKTIENGESELLSCHAFT et al.

.....

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6 <120> TITLE OF INVENTION: METHODS FOR THE PREPARATION OF A FINE
              CHEMICAL BY FERMENTATION
     10 <130> FILE REFERENCE: BGI-159PC2
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/579,693
C--> 13 <141> CURRENT FILING DATE: 2006-05-18
     15 <150> PRIOR APPLICATION NUMBER: PCT/IB2003/006464
     16 <151> PRIOR FILING DATE: 2003-12-18
     18 <160> NUMBER OF SEQ ID NOS: 15
     20 <170> SOFTWARE: FastSEQ for Windows Versión 4.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 1650
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Corynebacterium glutamicum
     27 <220> FEATURE:
     28 <221> NAME/KEY: CDS
     29 <222> LOCATION: (101)...(1627)
     31 <400> SEQUENCE: 1
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     33 aaacactgct tagtggccca atacgtgcaa aaataaggcc atg aga atc tca aag
     34
                                                     Met Arg Ile Ser Lys
     35
     37 gcc aat gcg tat gtt gca gcg att gac caa ggc acc act tcc act cgg
     38 Ala Asn Ala Tyr Val Ala Ala Ile Asp Gln Gly Thr Thr Ser Thr Arg
     39
                         10
     41 tgc atc ttc att gat gcc caa gga aaa gtg gtg tct tct gct tcc aag
                                                                           211
     42 Cys Ile Phe Ile Asp Ala Gln Gly Lys Val Val Ser Ser Ala Ser Lys
     45 gag cac cgc caa atc ttc cca caa cag ggc tgg gta gag cac gat cct
     46 Glu His Arg Gln Ile Phe Pro Gln Gln Gly Trp Val Glu His Asp Pro
     49 gaa gaa att tgg gac aac att cga tct gtc gtc agc cag gcg atg gtc
     50 Glu Glu Ile Trp Asp Asn Ile Arg Ser Val Val Ser Gln Ala Met Val
             55
                                 60
     53 tcc att gac atc acc cca cac gag gtt gca tcg ctg gga gtc acc aac
                                                                           355
     54 Ser Ile Asp Ile Thr Pro His Glu Val Ala Ser Leu Gly Val Thr Asn
                             75
                                                  80
     57 cag cgc gaa acc acc gtg gtg tgg gac aag cac acc ggc gaa cct gtc
                                                                           403
     58 Gln Arg Glu Thr Thr Val Val Trp Asp Lys His Thr Gly Glu Pro Val
                                              95
                         90
     61 tac aac gca atc gtg tgg caa gac acc cgc acc tct gac att tgc cta
     62 Tyr Asn Ala Ile Val Trp Gln Asp Thr Arg Thr Ser Asp Ile Cys Leu
                    105
     63
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Input Set : E:\seqlist.txt

Output Set: N:\CRF4\05312006\J579693.raw

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		Glu	Ile		Gly	Glu	Glu	Gly		Glu	Lys	Trp	Leu		Arg	Thr	Gly	
	67			120					125					130		- 4 4		5.45
		_	_				tac											547
		Leu		тте	Asn	ser	Tyr		ser	GIY	Pro	ьуѕ		ьуs	Trp	шe	Leu	
	71	~ ~ ~	135	~++	~~~	~~~	gct	140	~ 22	000	aaa	~ 33	145	~~~	~ 2 ~	at t	++~	595.
							Ala											19.1.
		150	ASII	vai	Giu	Gry	155	Arg	GIU	AI 9	AΙα	160	БуS	Gry	rop	пси	165	
			aac	acc	atg	gat	acc	taa	ata	cta	taa		cta	acc	aac	aat		643
							Thr											
	79		-			170		-			175				•	180		
	81	cgc	ggc	gac	gac	ggt	gat	gat	gcc	atc	cac	gtc	acc	gat	gtc	acc	aac	691
	82	Arg	Gly	Asp	Asp	Gly	Asp	Āsp	Ala	Ile	His	Val	Thr	Asp	Val	Thr	Asn	
	83				185					190					195			
							ttg											739
	86	Ala	Ser	Arg	Thr	Leu	Leu	Met	Asp	Leu	Arg	Thr	Gln		Trp	Asp	Pro	
	87			200					205					210				
																		、787
		Glu		Cys	Glu	Ala	Leu	_	Ile	Pro	Met	Ser		Leu	Pro	Glu	Ile	
	91		215					220					225					225
		_			_		gaa		_									835
		_	Pro	ser	vaı	GIY	Glu	Pne	Arg	ser	vaı	240	HIS	Arg	GIY	THE	245	
		230	~~~	at a	222	2++	235 act	~~~	ata	a+ a	~~~		a 2 a		aaa	~~~		883
							Thr											003
٠	99	лια	чэр	val	FIO	250	1111	Gry	var	пси	255	пор	0111	0111	mu	260	LCu	
		Ltt	. aat	t ca	a aa		a tto	cac	gaa	ı aat		: act	t aaa	a aat	aco		ggc	931
																	Gly	
	103			•	26		•			270			_		275		_	
	105	aco	gg	c ct	c tt	c ct	g cto	g ato	g aac	aco	ggd	aco	e teg	g tt	g aag	g att	tcc	979
	106	Thi	r Gly	y Le	u Ph	e Le	u Let	ı Met	Asr	Thi	r Gly	/ Thi	r Sei	r Lei	ı Lys	: Ile	e Ser	
	107			28	-				285					290				
																	gct	
					y Le	u Lei	u Ser			e Ala	а Туг	c Gli	_	_	ı Gly	z Sei	Ala	
	111		29!					300					30!					
																	ggtg	
				т ту	r Ala	а ье			y ser	va.	ı sei			A GT	y sei	те те	ı Val 325	
		310		~ ~+.	~ ~~		315				+ <i>i</i>	320		a aa				1123
																	g att a Ile	
	119		1 11	р пе	u Ar	33;		т пе	1 611	т пе	335		J ASI	II PI	2 110	340		
				c ct	c ac			ate	r daa	a da			t aa	c ati	r cat		gtc	1171
																	l Val	
	123			. 20	34		J 01.		- 0-0	350			,	2	355			
			a qc	a tt	_	_	a cto	ı tto	c aca			t ta	a ca	c cc			cgt	1219
																	a Arg	
	127			36			-		365		•	- '	-	37		-	_	
	129	gg (gte	c at	t ac	a gg	c cto	aco	c cgt	: tti	t gcd	c aa	c cg	c aa	a cad	ato	gcc	1267
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1 1 1,47, 1

Input Set : E:\seqlist.txt

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																	1919
	_	Ala	vai	ьeu	GIU		ASN	Ala	Pne	GIn		Arg	GIU	vai	vaı	-	
135						395					400					405	
137	gcc	atg	gcc	aaa	gac	gca	ggc	aaa	gcc	ctc	gaa	tcc	ctc	cgc	gtc	gac	1363
												Ser					
 139				-1-	410		1		,	415				5	420		
							~		 .a.e.a.					~~~		++-	1411
												atg					1411
142	GIY	Ala	Met		GIu	Asn	Asp	Leu	Leu	Met	GIn	Met	GIn	Ala	Asp	Phe	
143				425					430					435			
145	ctc	ggc	atc	gac	gtc	caa	cgt	ctc	gag	gac	gta	gaa	acc	acc	gcc	gtc	1459
												Glu					
147		2	440				3	445		_			450				
	~~~	~+~		++-	~~+	~~~	~~+		~~~	+ a+	~~~	++-			242	aat	1507
												ttc					1507
150	GIĀ	vaı	Ala	Pne	Ala	Ala			GIA	Ser	GIY	Phe	Pne	ьys	Tnr	Thr	
151		455					460					465					
153	gac	gag	atc	gaa	aaa	ctt	att	gca	gtg	aag	aaa	gtc	tgg	aac	cct	gac	1555
												Val.					ين .
155	_				_	475				-	480		-		-	485	· * 🎉
		200	~~~	~~~	~~~		~~~	aat	000	tat		~==	taa	22t	200		1603
												gaa					1003
	met	ser	GIU	GIU		Arg	GIU	Arg	Arg	_	Ата	Glu	Trp	Asn	_	Ala	
159					490					495					500		
161	gtg	gag	cat	tct	tat	gac	cag	gcc	tage	ctgat	ctt 9	gggto	egge	ct tt	.a		1650
162	Val	Glu	His	Ser	Tyr	Asp	Gln	Ala									
163				505	-	-											
	<210	)	O TI		. 2												
	<213																
					,,												
	<212				_				٠.								
						yneba	acte	rium	grui	camio	cum						
	<400																
172	Met	Arg	Ile	Ser	Lys	Ala	Asn	Ala	Tyr	Val	Ala	Ala	Ile	Asp	Gln	Gly	
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174	Thr	Thr	Ser	Thr	Ara	Cvs	Ile	Phe	Ile	Asp	Ala	Gln	Glv	Lvs	Val	Val	
175				20	3	-1-			25				2	30			
	C0~	Cor	ח ד ת		Tara	C1.,	шic	7~~		тло	Dho	Pro	Gla		Clar	Trn	
	Ser	per		Ser	цур	GIU	птъ	_	GIII	116	FIIC	FIU		GIII	Gry	пр	
177	_	_	35			_	_	40				_	45	_			
178	Val		His	Asp	Pro	Glu	Glu	Ile	$\mathtt{Trp}$	Asp	Asn	Ile	Arg	Ser	Val	Val	
179		50					55					60					
180	Ser	Gln	Ala	Met	Val	Ser	Ile	Asp	Ile	Thr	Pro	His	Glu	Val	Ala	Ser	
181						70		-			75					80	
		C111	37-3	Thr	7 cn		720	Glu	Thr	Thr		Val	Trn	Acn	Lare		
	ьец	GIY	vai	1111		GIII	Arg	GIU	1111		vai	vai	пр	ьэр	_	1115	
183				_	85	_	_			90	_		_	1	95	<b>-</b> -1	
	Thr	Gly	Glu	Pro	Val	Tyr	Asn	Ala		Val	Trp	Gln	Asp	Thr	Arg	Thr	
185				100					105					110			
186	Ser	Asp	Ile	Cys	Leu	Glu	Ile	Ala	Gly	Glu	Glu	Gly	Gln	Glu	Lys	Trp	
187		•	115	-				120	-			-	125		-	-	
		_	_		<b>a</b> 1	T	T 011		Acr	Car	TT	Dwo		<b>a</b> 1	Dro	T	
1 2 2	יום.Т	Acr	Δra	יייוי	(2137									(+137		Live	
188	Leu		Arg	Thr	GIY	Leu		TIE	ASII	261	ıyı		ser	GIY	PIO	ьуs	
188 189	Leu	130	Arg	Thr	GIY	ьеu	135	116	ASII	261	ıyı	140	ser	GIY	PIO	гàг	

Input Set : E:\seqlist.txt

```
190 Ile Lys Trp Ile Leu Asp Asn Val Glu Gly Ala Arg Glu Arg Ala Glu
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 192 Lys Gly Asp Leu Leu Phe Gly Thr Met Asp Thr Trp Val Leu Trp Asn
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                     165
  194 Leu Thr Gly Gly Val Arg Gly Asp Asp Gly Asp Asp Ala Ile His Val
 195
                                     185
  196 Thr. Asp. Val. Thr Asn Ala Ser Arg Thr Leu Leu Met Asp Leu Arg. Thr.
 197 195
                                200
                                                     205 -
  198 Gln Gln Trp Asp Pro Glu Leu Cys Glu Ala Leu Asp Ile Pro Met Ser
                             215
  200 Met Leu Pro Glu Ile Arg Pro Ser Val Gly Glu Phe Arg Ser Val Arg
                         230
                                             235
  202 His Arg Gly Thr Leu Ala Asp Val Pro Ile Thr Gly Val Leu Gly Asp
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                                         250
  204 Gln Gln Ala Ala Leu Phe Gly Gln Gly Phe His Glu Gly Ala Ala
                                     265
  206 Lys Asn Thr Tyr Gly Thr Gly Leu Phe Leu Leu Met Asn Thr Gly Thr
  207 275
                                 280
11. 208 Ser here Lys Ile Ser Glu His Cly Leu Ser Thr Lle Alas Byg Gln
                                     ."
  209 290
                                                 300
                             295
  210 Arg Glu Gly Ser Ala Pro Val Tyr Ala Leu Glu Gly Ser Val Ser Met
                         310
                                             315
  212 Gly Gly Ser Leu Val Gln Trp Leu Arg Asp Asn Leu Gln Leu Ile Pro
                                         330
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  214 Asn Ala Pro Ala Ile Glu Asn Leu Ala Arg Glu Val Glu Asp Asn Gly
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                                     345
  216 Gly Val His Val Val Pro Ala Phe Thr Gly Leu Phe Ala Pro Arg Trp
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                                 360
  218 Arg Pro Asp Ala Arg Gly Val Ile Thr Gly Leu Thr Arg Phe Ala Asn
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  220 Arg Lys His Ile Ala Arg Ala Val Leu Glu Ala Asn Ala Phe Gln Thr
                         390
  222 Arg Glu Val Val Asp Ala Met Ala Lys Asp Ala Gly Lys Ala Leu Glu
                                         410
  224 Ser Leu Arg Val Asp Gly Ala Met Val Glu Asn Asp Leu Leu Met Gln
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  226 Met Gln Ala Asp Phe Leu Gly Ile Asp Val Gln Arg Leu Glu Asp Val
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  228 Glu Thr Thr Ala Val Gly Val Ala Phe Ala Ala Gly Leu Gly Ser Gly
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  230 Phe Phe Lys Thr Thr Asp Glu Ile Glu Lys Leu Ile Ala Val Lys Lys
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  239 <211> LENGTH: 35
  240 <212> TYPE: DNA
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Input Set : E:\seqlist.txt

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 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: Oligonucleotide
 246 <400> SEQUENCE: 3
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 247 gagagagaga cgcgtcccag tggctgagac gcatc
 249 <210> SEQ ID NO: 4
 250 <211> LENGTH: 34
                            واستأربوا البحص البيومي بمرا
 251 <212> TYPE: DNA
 252 <213> ORGANISM: Artificial Sequence
 254 <220> FEATURE:
 255 <223> OTHER INFORMATION: Oligonucleotide
 257 <400> SEQUENCE: 4
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 263 <213> ORGANISM: Corynebacterium glutamicum
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 267 tategtegae ategatgete ttetgegtta attaacaatt gggateetet agaceeggga 120
 268 tttaaatcgc tagcgggctg ctaaaggaag cggaacacgt agaaagccag tccgcagaaa 180
 269 cqqtqctqac cccqqatqaa tqtcaqctac tgggctatct ggacaaggga aaacgcaagc 240
 270 qcáaaqaqaa aqcaqqtaqc ttgcaqtggg cttacatggc gatagctaga ctgggcggtt 300
 271 ttatggacag caagegaace ggaattgeca getggggege cetetggtaa ggttgggaag 360
 272 ccctgcaaag taaactggat ggctttcttg ccgccaagga tctgatggcg caggggatca 420
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 274 gcaggttete eggeegettg ggtggagagg etattegget atgaetggge acaacagaca 540
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 279 cctgccgaga aagtatccat catggctgat gcaatgcggc ggctgcatac gcttgatccg 840
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 285 gctgaagagc ttggcggcga atgggctgac cgcttcctcg tgctttacgg tatcgccgct 1200
 286 cccgattcgc agcgcatcgc cttctatcgc cttcttgacg agttcttctg agcgggactc 1260
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 290 gcccqqtqtg aaataccqca cagatqcqta aggagaaaat accqcatcag gcqctcttcc 1500
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 292 cactcaaagg cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg 1620
 293 tgagcaaaag gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc 1680
 294 cataggetee geececetga egageateae aaaaategae geteaagtea gaggtggega 1740
 295 aacccgacag gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct 1800
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VERIFICATION SUMMARY

Action to the second

DATE: 05/31/2006

PATENT APPLICATION: US/10/579,693

TIME: 13:29:05

Input Set : E:\seqlist.txt

Output Set: N:\CRF4\05312006\J579693.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date